

5/18/05 - 01689



Meeting Minutes

Naval Weapons Station Yorktown (NWSY) Yorktown, Virginia Restoration Advisory Board (RAB) Meeting Wednesday, 18 May 2005, 1830-2030

Attendees:

| Name | Organization |
|--------------------|---|
| CDR Joe Guerrero | Atlantic Ordnance Command and Representing NWSY CO CAPT Philip Beierl |
| LCDR Chris Knudsen | Public Works Officer |
| Jim Kemp | NWSY Public Affairs Officer |
| Linda Cole | NAVFAC MIDLANT |
| Sean Heaney | CNRMA Yorktown Environmental Department |
| Charles Wilson | CNRMA Environmental |
| Greyson Franklin | USEPA |
| Don Joiner | Baker Environmental |
| Marlene Ivester | Baker Environmental |
| Wandy Browne | Management Edge |
| Tim Flood | Management Edge |
| Jay Dewing | Community Co-Chair |
| Mrs. Jay Dewing | Community Member |
| Barry Moss | Community Member |
| Elizabeth Rogers | Community Member and Chesapeake Bay Yorktown Chapter |
| Cindy Barbeau | Community Member |
| Holly Kemp | Community Member |

[Note: Attachment 1 is the Public Notice for the RAB Meeting. Attachment 2 is the May 2005 RAB Meeting Sign-in Sheet. Attachment 3 is the meeting handout, which contains a hardcopy of the meeting Agenda and Presentations.]

Opening Remarks were presented by Jim Kemp and CDR Guerrero.

CDR Guerrero presented Jay Dewing with a certificate of Acknowledgement of Service and an NWSY coin for his role as the NWSY Community Co-Chair. Mr. Dewing indicated that he has served as Community Co-Chair since the NWSY RAB inception and is stepping down after 10 years of service. His contributions to the NWSY RAB were duly noted.

Linda Cole took the floor for selection of the new Community Co-Chair. Community members Barry Moss and Elizabeth Rogers both volunteered for the position; therefore, an election by the community members was necessary. Each member spoke and expressed their interest in becoming Community Co-Chair. Linda Cole passed out secret ballots for the community members. Wandy Browne collected and counted the votes. Barry Moss was elected as the new Community Co-Chair.

PRESENTATIONS

Work Plan for NWSY Sites 2 and 8 and SSA 14:

Don Joiner took the floor for the first presentation on the Work Plan for NWSY Sites 2 (Turkey Road Landfill) and 8 (Naval Explosives Development Engineering Department (NEDED) Explosives-Contaminated Wastewater Discharge Area) and SSA 14 (Building 537 Discharge to Felgates Creek). Don described the proposed sampling for Site 2. Cindy Barbeau asked, "How do you know that the [proposed sampling area for Site 2] was not originally part of the landfill?" Don replied it was based on visual inspection and where samples were collected for the remedial investigation report. Cindy asked if the debris can be dated to the landfill operations and not later? Don said yes. Don next described the proposed sampling for SSA 14. Elizabeth Rogers asked what was at the bottom of the slope of SSA 14? Don replied a discharge point, marsh grasses, and a channel out to Felgates Creek. Cindy asked, since SSA 14 was steep, could there be contamination further down along Felgates Creek? Don said it could be a possibility. Barry Moss asked if some sampling would occur down the slope of SSA 14. Don replied yes. Elizabeth asked how the proposed sampling tied into any monitoring of Felgates Creek itself? Don replied that Felgates Creek was not part of a monitoring program at this time. Elizabeth asked if VIMS was conducting an oyster study on Felgates Creek? Charlie Wilson replied they do have an oyster reef near the mouth of Felgates Creek, but that VIMS did not come up past the Colonial Parkway. Cindy asked if there were any patterns in the contamination – did it disperse up the creek? Don said there were no known patterns, and the results of the proposed sampling may lead to additional ecological investigation. Cindy asked if Sites 2 and 8 and SSA 14 were under the same task order, regarding funding? Linda Cole replied yes they are; however, Site 2 will be separated out after this initial round of sampling because it is a landfill and will/may involve a larger scope. Elizabeth requested a full-size copy of the presentation to better see the graphics. Linda said she would send it to her. Cindy said it would help to have Site 8 and SSA 14 on the same graphic to see them and the sample results in relation to each other. Don concurred.

CAX Site 7 Explosive Safety Submission (ESS)

Linda Cole took the floor for the second presentation on CAX Site 7 (Old DuPont Disposal Area) and clarified that "Site 7" and "Site 7N" were the same. Linda gave a brief background on Site 7's history and the proposed geotube installation. Barry Moss asked if the geotube came in sections? Don Joiner replied yes it did and stated that geotubes were a common type of erosion control, meaning this is a typical application. Cindy Barbeau asked what would happen to the geotube after the eventual cleanup? Linda said it would degrade overtime and the sand inside would replenish the beach. Don further replied that geotubes have a design life and would eventually degrade. Linda described the mortar shell found at Site 7 during the beach cleanup. Barry asked how the Navy was sure there weren't more munitions at the site that possibly would be covered by the geotube? Linda replied that because the ordnance item was found on the beach, it wasn't certain that it originated at Site 7 or was deposited from the tide. In addition, Linda stated that other ordnance items had not been found on CAX previously. However, Linda said because the ordnance item was found and it could not be determined to be inert, an ESS for Site 7 would be necessary and the ESS covers the procedures for looking for ordnance items, meaning there will be an unexploded ordnance (UXO) technician on-site to evaluate anomalies found during the geophysical survey and clear the area before and during geotube installation.

Cindy asked how detailed was the ESS? Linda replied that it was very detailed work plan, covering site history, points of contact, and action plans.

NWSY Site 4 ROD: Differences from 2001 PRAP

Don Joiner took the floor for the third and final presentation for the evening. Don described the history of investigations at NWSY Site 4 (Burning Pad Residue Landfill) and explained that the clean-up changed from the proposed industrial level to residential level, which was better than what was originally intended. Cinda Barbeau asked who signed the ROD? Greyson Franklin replied the Navy, the State, and USEPA, Region III. Don also commented that there would be public notification of the availability of the Draft ROD, so the public would have an opportunity to see and comment on the document before it is signed.

- End of Presentations -

Barry Moss requested that the last page of the RAB meeting handout be a timeline so the members could better see the big picture for the sites themselves and NWSY as a whole. Linda Cole replied it was a great idea and it would be included. Linda further commented that the Navy would be better at presenting the available budgets for site projects.

Jim Kemp presented the closing remarks and thanked everyone for attending.

Action Items: Linda Cole will send a full-size copy of the presentations to Elizabeth Rogers. Baker will present the results for Site 8 and SSA 14 on the same drawing in order to view the sites and samples results in relation to each other. A timeline for site/project status will be included in future meeting handouts.

Next RAB Meeting: Wednesday, 17 August 2005, 1830 to 2030
Charles E. Brown Park Community Building

Points of Contact for Questions, Comments, and to Request Additional Information:

Ms. Linda Cole, NAVFAC Mid-Atlantic Remedial Program Manager and NWSY RAB Navy Co-Chair, (757) 322-4734

Mr. Jim Kemp, NWSY Public Affairs Officer, (757) 887-4939

**Congratulations to Mr. Barry Moss on becoming the new
NWSY RAB Community Co-Chair!**



*Naval Weapons Station Yorktown
Restoration Advisory Board Meeting Minutes – 18 May 2005*

Attachment 1: Public Notification of Meeting

STATE

**Public Notice of
RESTORATION ADVISORY BOARD MEETING
For Naval Weapons Station Yorktown/Cheatham Annex**

The Naval Facilities Engineering Command (NAVFAC), Mid-Atlantic, will hold a Restoration Advisory Board (RAB) Meeting at the following time and place:

Wednesday, May 18, 2005
from 6:30 p.m. to 8:30 p.m.

Charles E. Brown Park Community Building, Old Williamsburg Road (Route 238)
Lackey, Virginia (Near entrance to Gate No. 1)

The Public is Invited to Attend

The Naval Weapons Station Yorktown/Cheatham Annex RAB meets to discuss environmental issues and to inform the local community about base cleanup activities. This is your opportunity to participate in the process by providing direct input about base cleanup activities.

If you would like to receive additional information about the environmental cleanup program at Naval Weapons Station Yorktown/Cheatham Annex please contact:

Ms. Linda Cole, RAB Navy Co-Chair, at (757) 322-4734

NAVFAC Mid-Atlantic also holds RAB meetings for the following Naval facilities:

St. Juliens Creek Annex; Naval Amphibious Base,
Little Creek; and Naval Station Norfolk





Naval Weapons Station Yorktown

Restoration Advisory Board Meeting Minutes – 18 May 2005

Attachment 2: Attendance Sign-in Sheets

Date 5-18-2005

| | | | |
|------------------|----------------------|----------------|------------------------------|
| Linda Cole | NAVFAC Mid-Atlantic | (757)322-4734 | linda.cole@navy.mil |
| DON JOINER | BAKER ENV | 757-631-5416 | djoiner@mbakercorp.com |
| MARLENE IVESTER | BAKER ENV | (757)631-5462 | mivester@mbakercorp.com |
| BARRY MOSS | NH RESIDENT | (757)898-8450 | 8FMOSS@COX.NET |
| Wanda Browne | The Management Edge | (207)799-8687 | |
| Tim Flood | The Management Edge | (727) 807-2610 | tflood1@tampabay.rr.com |
| Grayson Franklin | US EPA | 215 814 2333 | franklin.grayson@epa.gov |
| CHARLES WILSON | CNRMA Environmental | 757 887 7605 | wilsonch@pwcnorva.navy.mil |
| CHRIS KNUDSEN | NFOCM | 757 887 4636 | christopher.knudsen@navy.mil |
| Jim Kemp | NWD YORKTOWN | 887-4939 | kempjw@NWSY.NAVY.MIL |
| Holly Kemp | ELIZABETH VA | | |
| Joe GUERRA | ATLANTIC OAD Command | 387-4889 | — |

Date 5-18-2005

| | | | |
|--------------------|---------------------------|------------------------------|-----------------------|
| | | | |
| Elizabeth C Rogers | Ches. Bay, York Chapter | 757-249-3779 | — |
| JAY DEWING | CO CHAIR | 757-259 ⁴⁶⁵² | — |
| Cindy Barbeau | 102 Jean Pl. Yorktown, VA | 757-867-8261 (c) 218-0900 | cindybarbeau@cox.net |
| Sean Heaney | CNRMA Yorktown Env Dept | 757 887 4086 | heaneyss@pwc.navy.mil |
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*Naval Weapons Station Yorktown
Restoration Advisory Board Meeting Minutes – 18 May 2005*

**Attachment 3:
Meeting Handout – Agenda and Presentations**



Naval Weapons Station Yorktown/Cheatham Annex

Restoration Advisory Board Meeting

18 May 2005

Charles E. Brown Park Community
Building

Old Williamsburg Road

AGENDA

ENVIRONMENTAL RESTORATION ADVISORY BOARD

NAVAL WEAPONS STATION YORKTOWN AND CHEATHAM ANNEX

CHARLES E. BROWN PARK COMMUNITY BUILDING

OLD WILLIAMSBURG ROAD (Route 238), LACKEY, VA

WEDNESDAY, 18 MAY 2005, 6:30 PM – 8:30 P.M.

| | | |
|--|---|-----------|
| WELCOME/INTRODUCTION | Mr. Jim Kemp Public Affairs Officer | 6:30-6:35 |
| NAVY REMARKS | CAPT Philip G. Beierl Commanding Officer | 6:35-6:40 |
| COMMUNITY REMARKS & FAREWELL | Mr. Jay Dewing Community Co-Chair | 6:40-6:50 |
| ACKNOWLEDGEMENT OF SERVICE FOR JAY DEWING | CAPT Philip G. Beierl Commanding Officer | 6:50-6:55 |
| SELECTION OF COMMUNITY CO- CHAIR | Ms. Linda Cole NAVFAC Mid-Atlantic | 6:55-7:10 |
| BREAK | | |
| | | |
| WORK PLANS FOR NWSY SITES 2 AND, 8 AND SSA 14 | Mr. Don Joiner Baker Environmental | 7:30-7:50 |
| CAX SITE 7 EXPLOSIVE SAFETY SUBMISSION | Ms. Linda Cole NAVFAC Mid-Atlantic | 7:50-8:10 |
| NWSY SITE 4 ROD; DIFFERENCES FROM 2001 PRAP | Mr. Don Joiner Baker Environmental | 8:10-8:25 |
| FINAL COMMENTS/CLOSING REMARKS | Mr. Jim Kemp Public Affairs Officer | 8:25-8:30 |

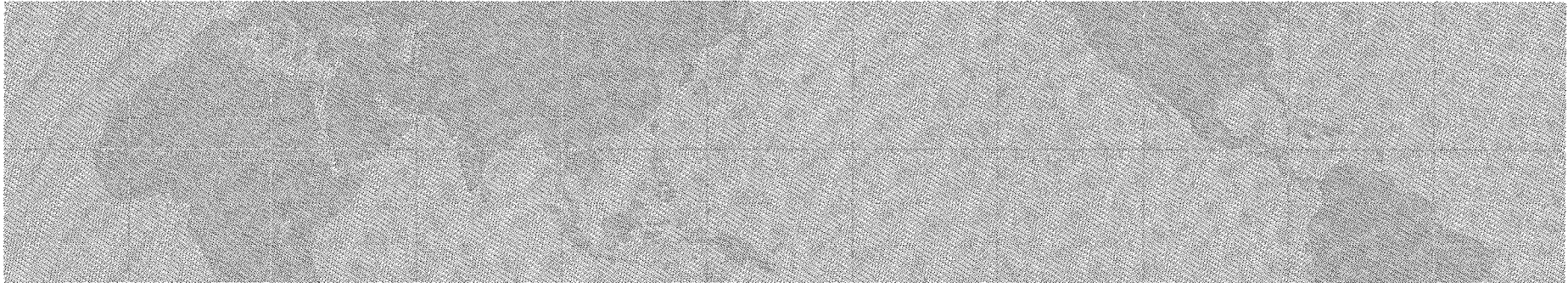
FUTURE RAB MEETINGS:

Wednesday, 17 August 2005

Wednesday, 16 November 2005

Wednesday, 15 February 2006

Wednesday, 17 May 2006



Naval Weapons Station Yorktown

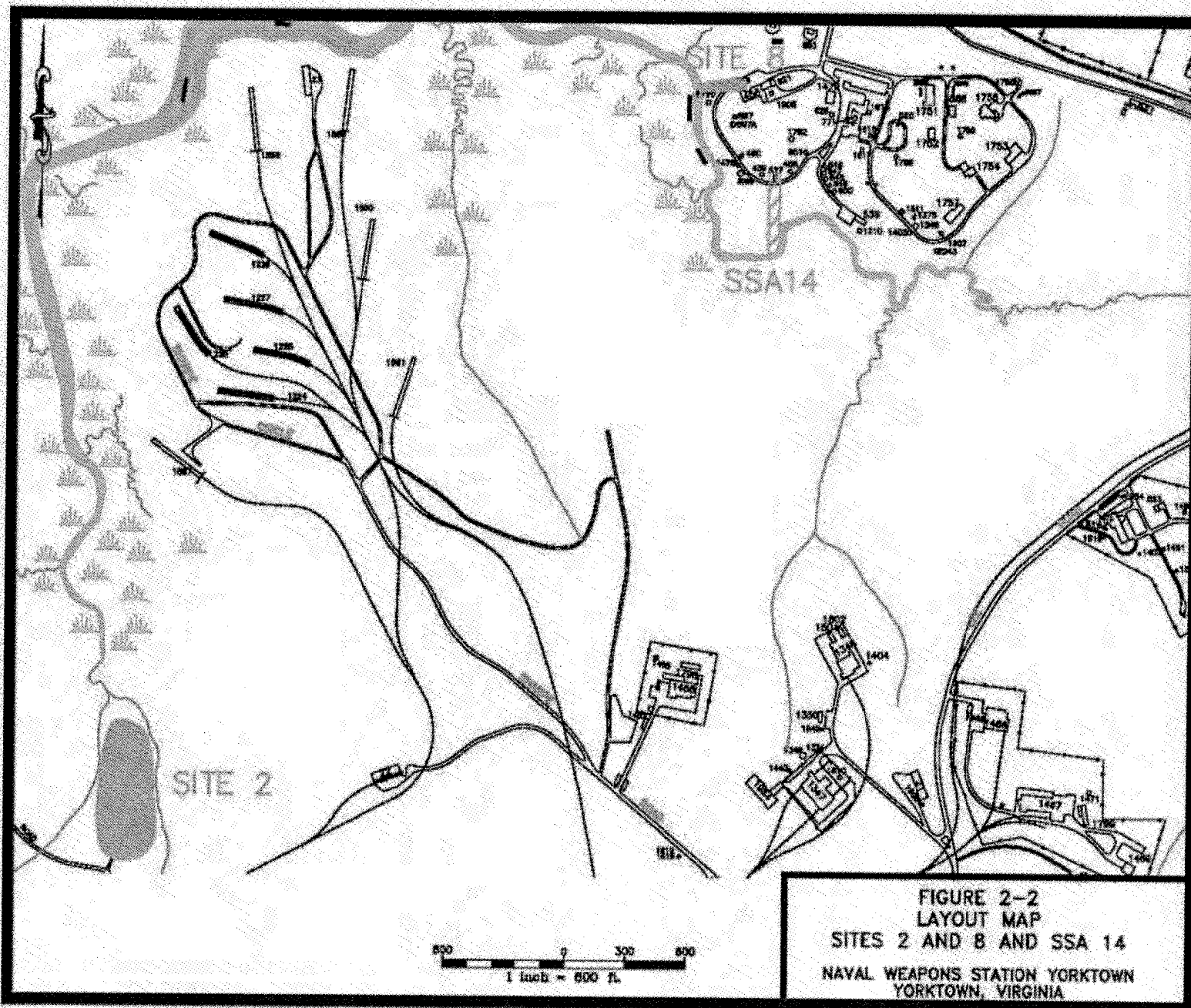
Sites 2 and 8 and SSA 14 Removal Delineation Field Investigation

WPNSTA YORKTOWN RAB Meeting
18 May 2005



Background

- ❖ Remedial Investigation (RI) for Site 2, Site 8, and Site Screening Area (SSA) 14 finalized June 2004
- ❖ Chemicals of Concern (COCs) identified at each site which may impact human health and/or the environment
- ❖ Planned remedy is removal based on small size of impacted areas at each location – planned for Fall 2005
- ❖ Removal delineation planned for Summer 2005
 - Will further characterize the soil conditions at each site to support planned removal/remedial actions
 - Will delineate extent of identified human health and ecological COCs





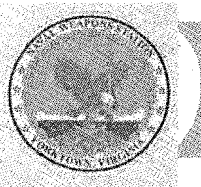
Site 2 - Turkey Road Landfill





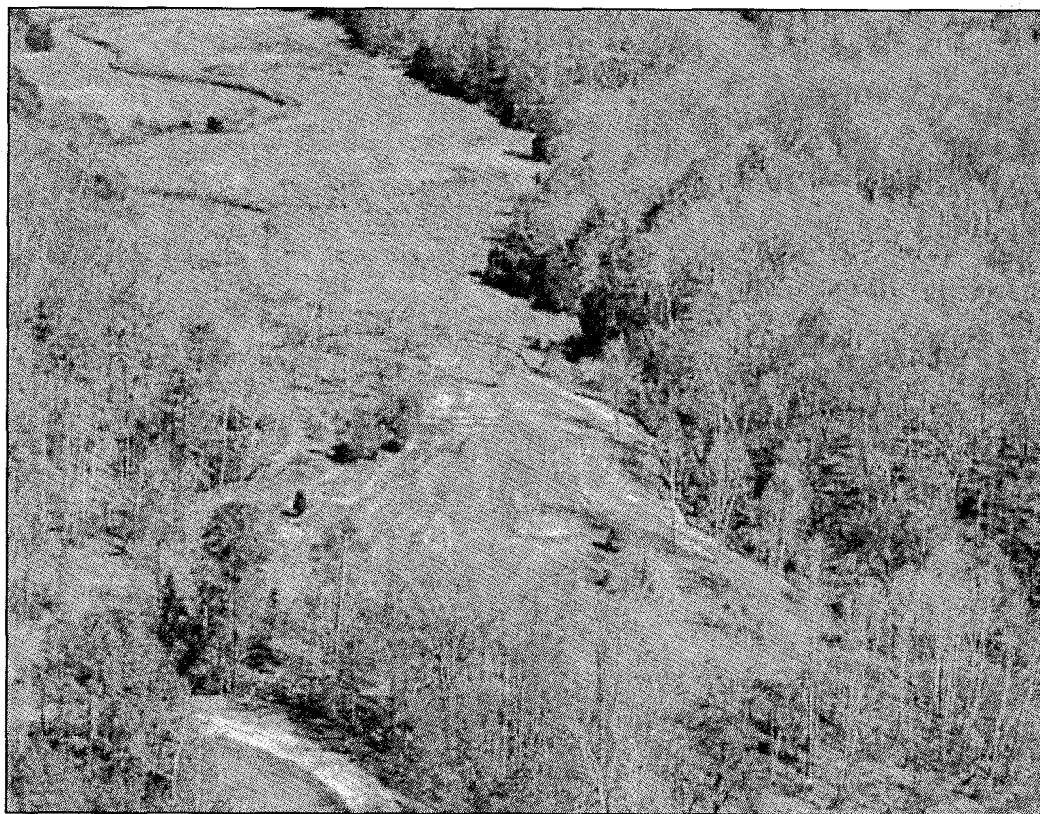
Site 2 - Turkey Road Landfill

- 5-acre disposal area located east of Turkey Road
- Operated from 1940s to 1981
- Wastes disposed (approximately 240 tons) include: batteries, tree stumps, construction rubble, hard waste material, electrical devices, and unidentified drums and/or tanks.
- Removal of hard waste material in Summer 1994



Site 2 - Turkey Road Landfill

- 2004 RI identified the following COCs:
 - Polycyclic Aromatic Hydrocarbons (PAHs)
 - Polychlorinated Biphenyls (PCBs)
 - Metals: cadmium and mercury

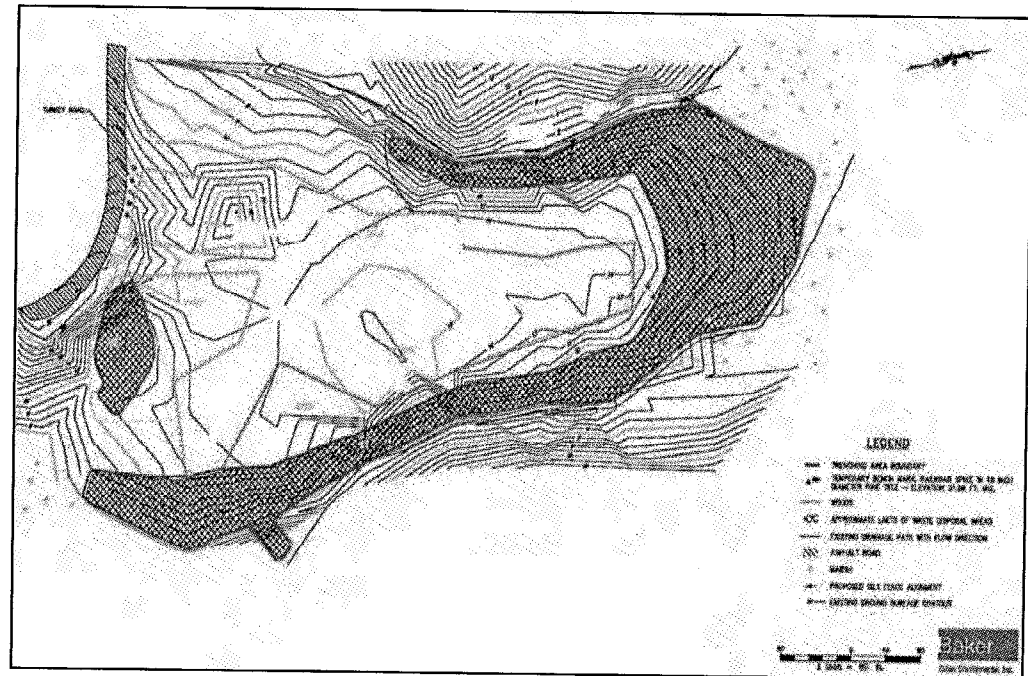


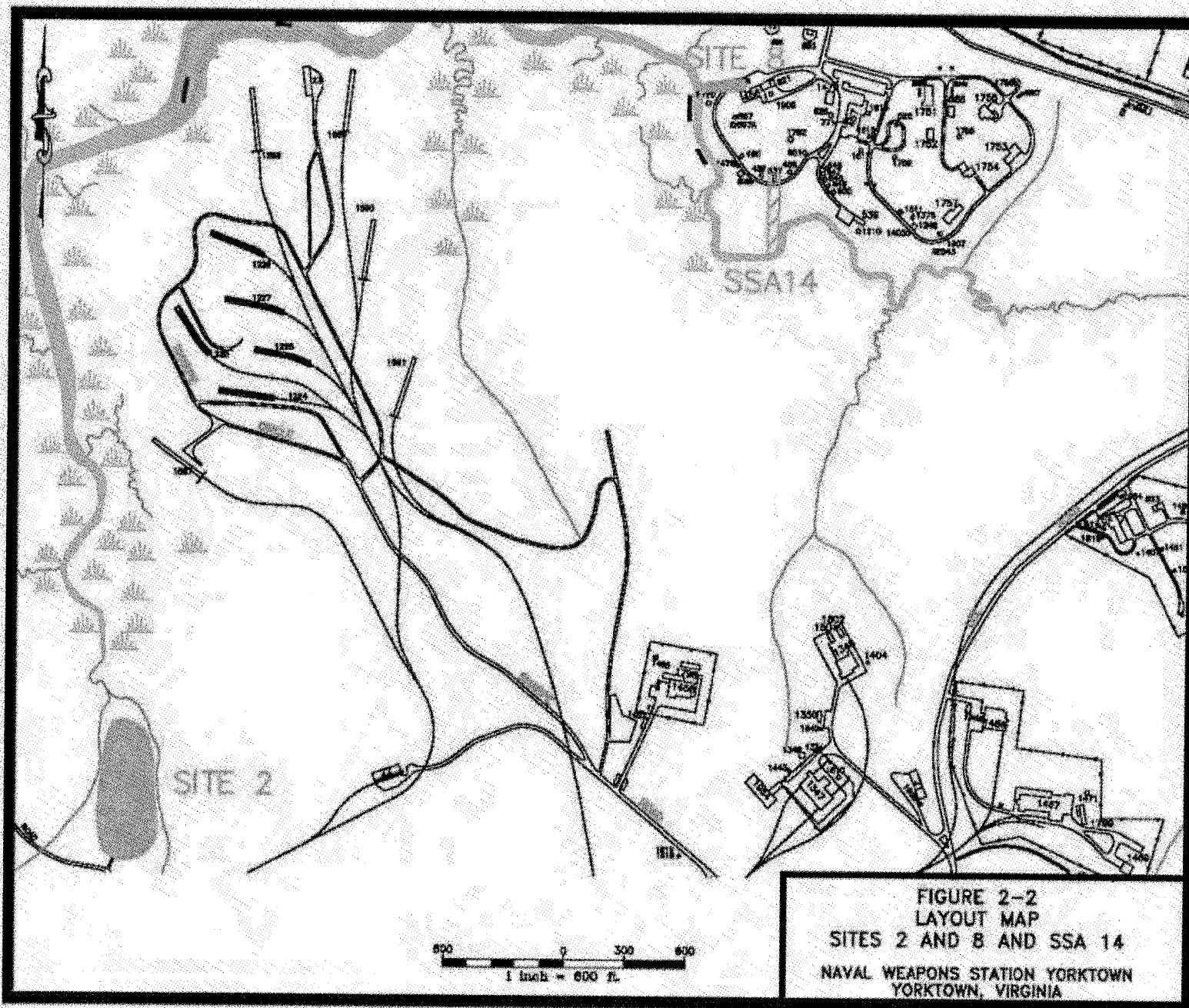


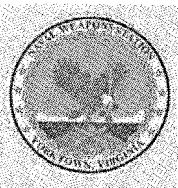
Site 2 - Turkey Road Landfill

Field Investigation Objectives

- Gather soil information (via trenching) to determine the extent of COCs within the former disposal area
- From each trench, collect at least one discrete, environmental soil sample and analyze for the COCs
- A total of 40 samples will be collected







Site 8 - NEDED Explosives-Contaminated Wastewater Discharge Area





Site 8 - NEDED Explosives-Contaminated Wastewater Discharge Area

- 300-foot long drainage way located along the eastern branch of Felgates Creek
- Area received wastewater from the Naval Explosives Development Engineering Department (NEDED) complex (Building 456) from 1940 to 1975
- Wastewater reportedly contained unspecified solvents, acids, and explosive compounds



Site 8 - NEDED Explosives-Contaminated Wastewater Discharge Area

- 2004 RI identified the following COCs:

- Explosives
- PCBs
- Metals: chromium, mercury, and zinc

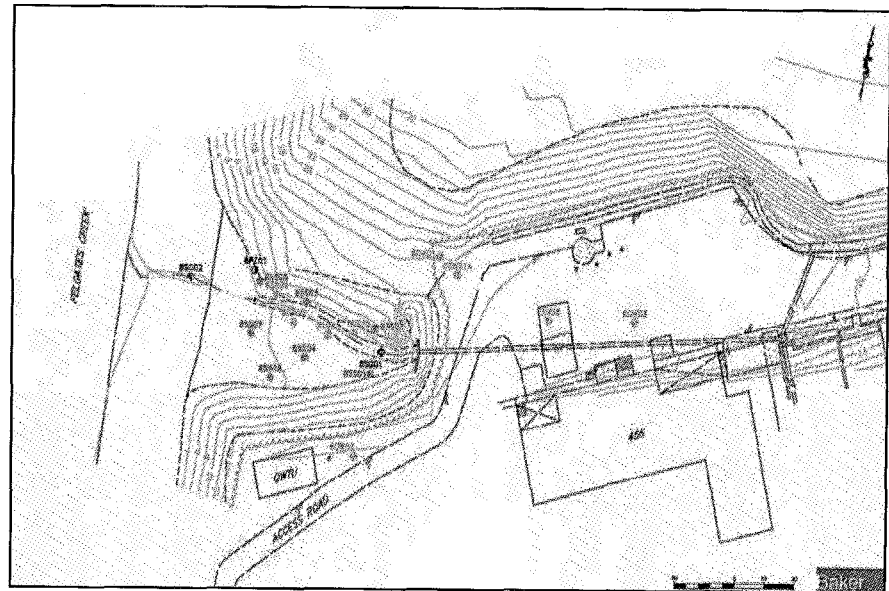


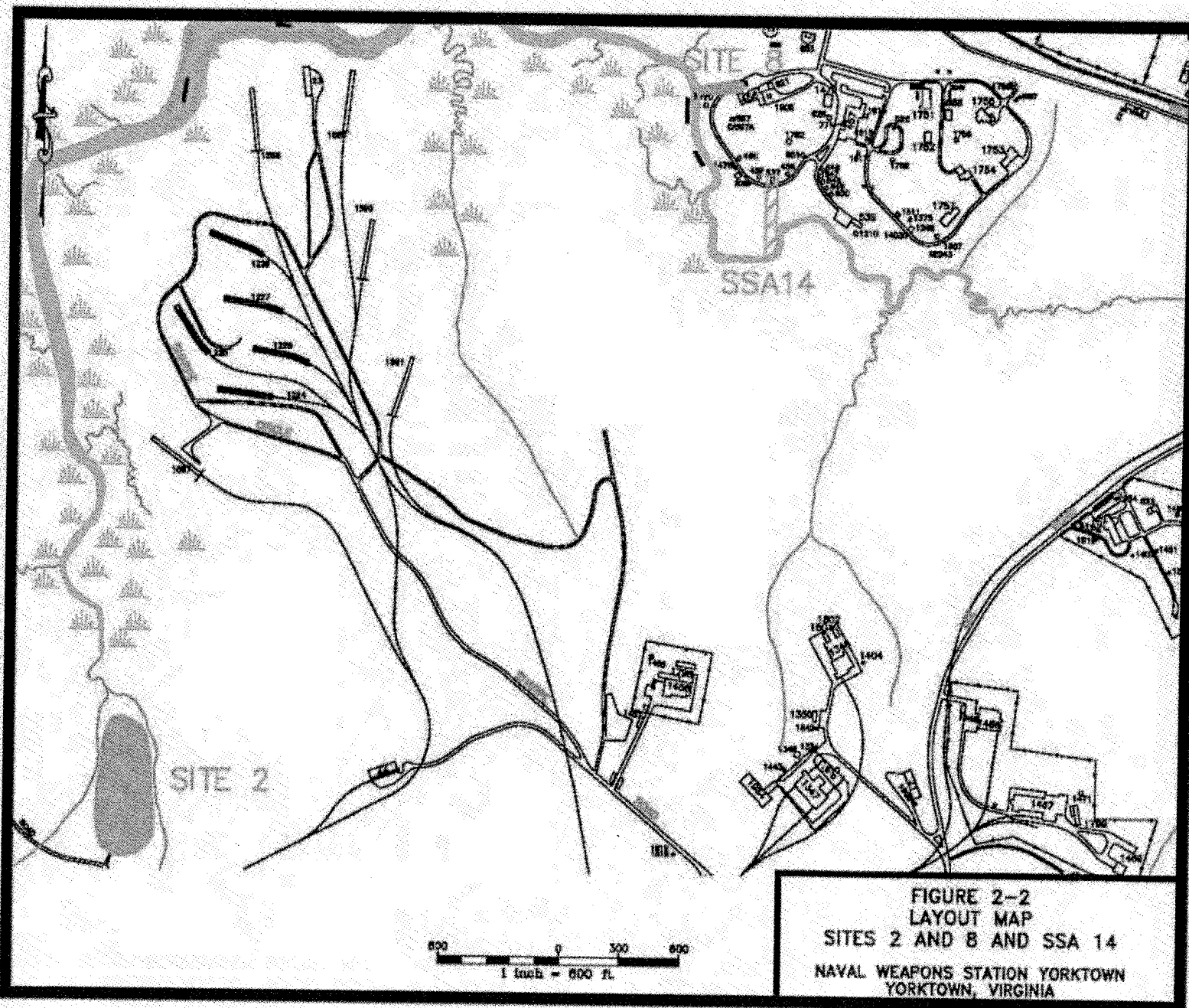


Site 8 - NEDED Explosives-Contaminated Wastewater Discharge Area

Field Investigation Objectives

- Gather soil information to determine the extent of COCs in the area immediately surrounding the Site 8 drainage ditch
- From each sample location, collect two discrete, environmental soil samples and analyze for the COCs
- A total of 16 samples will be collected (8 locations, two depths)







SSA 14 - Building 537 Discharge to Pelgates Creek





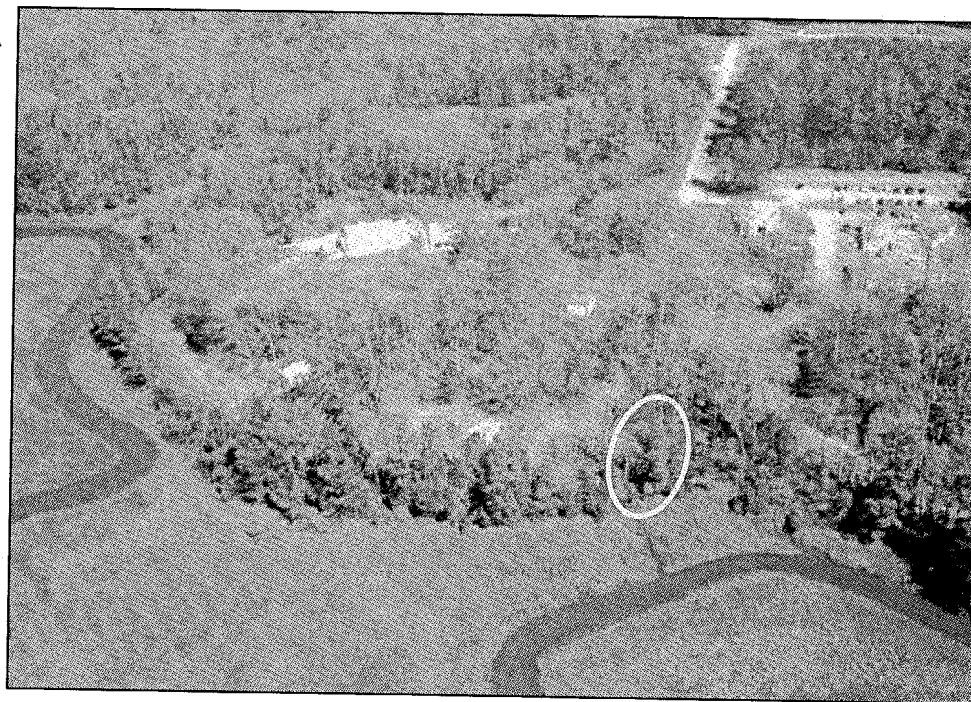
SSA 14 - Building 537 Discharge to Felgates Creek

- 0.4 acre drainage way located along the eastern branch of Felgates Creek
- Upgradient of Site 8
- Area received explosive-contaminated wastewater from a pipe leading from Building 537



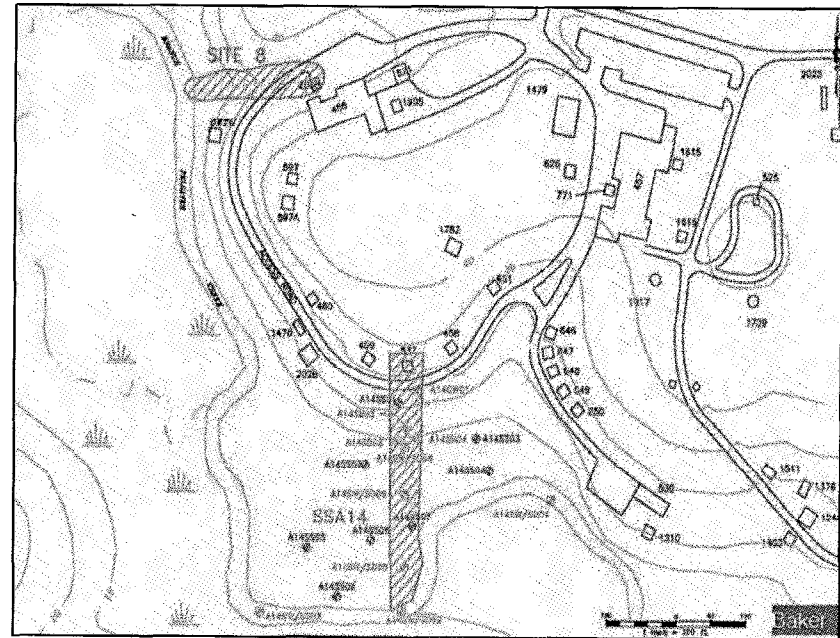
SSA 14 - Building 537 Discharge to Felgates Creek

- 2004 RI identified the following COCs:
 - Explosives
 - Metals: mercury, selenium, and zinc





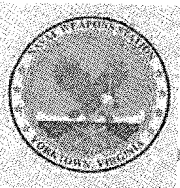
- Gather soil information to determine the extent of COCs in the area surrounding the SSA 14 drainage tract
- From each sample location, collect two discrete, environmental soil samples and analyze for the COCs
- A total of 16 samples will be collected (8 locations, two depths)





Reporting

- Data will be presented in Engineering Evaluations/Cost Analyses (EE/CAs) to support the removal effort
- Will define removal areas based on extent of contaminant concentrations exceeding cleanup goals
- Widespread contamination may warrant focused ecological evaluation prior to additional removal effort



Questions or Comments?

For additional information contact:

Don Joiner

Baker Environmental, Inc.

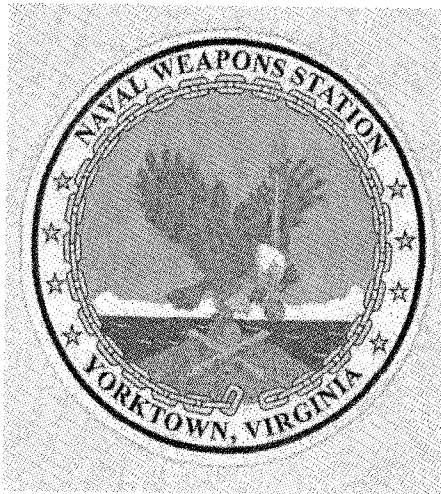
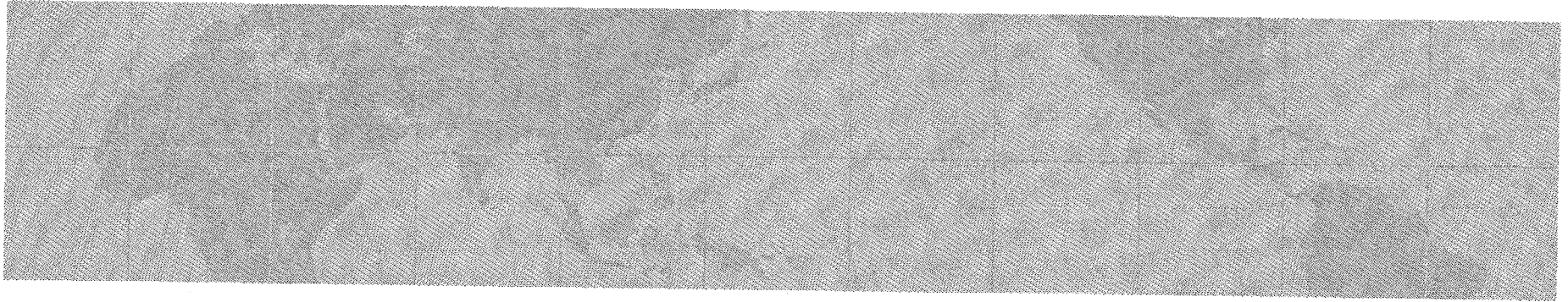
770 Lynnhaven Parkway

Suite 240

Virginia Beach, VA 23452

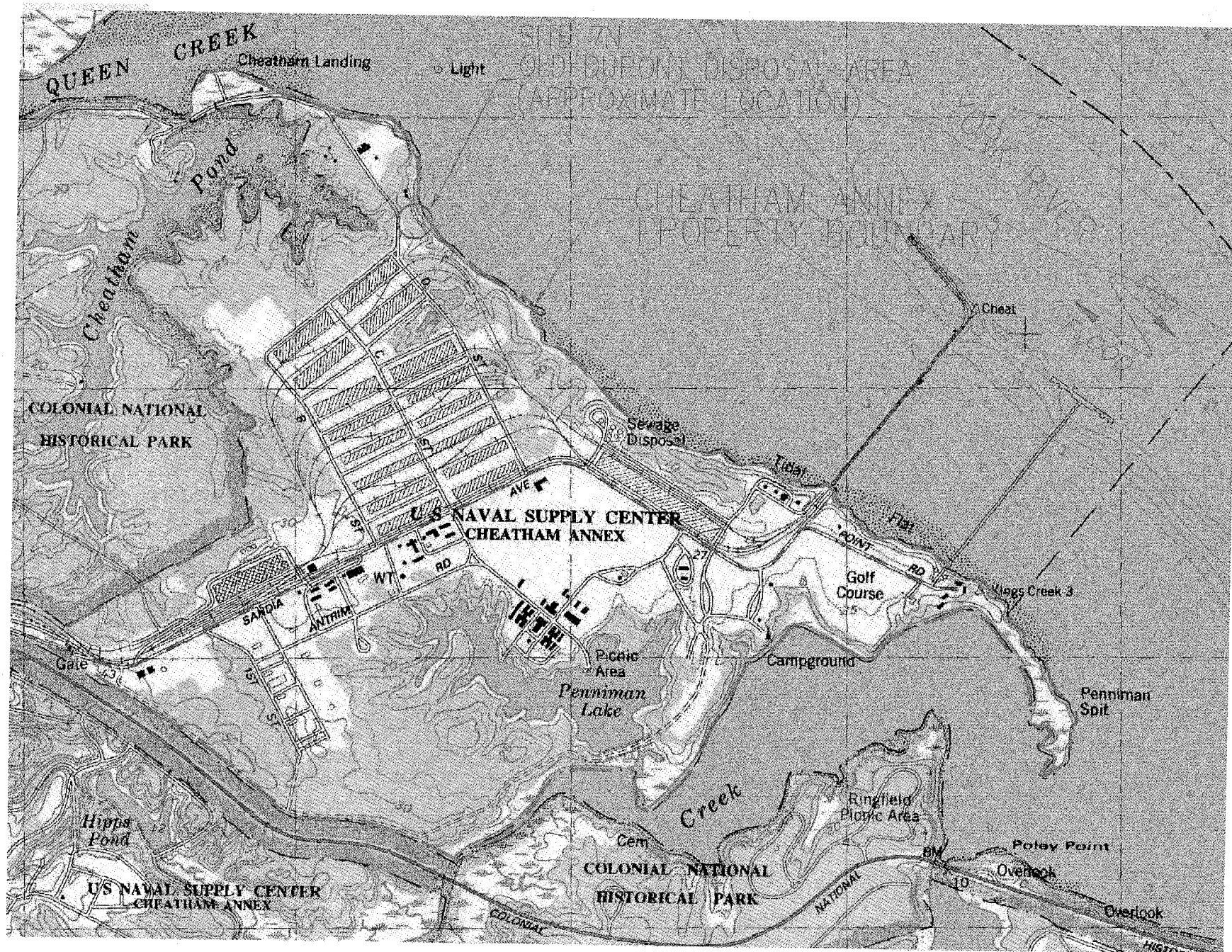
757-631-5416

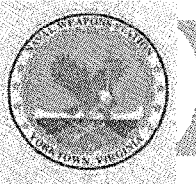
djoiner@mbakercorp.com



Cheatham Annex
Naval Weapons Station Yorktown
Site 7 Old DuPont Disposal Area Update

WPNSTA Yorktown RAB Meeting
18 May 2005





Background

- Received waste from the City of Penniman and the DuPont shell loading plant
- Located near recreational cabins
- Debris from disposal area eroding onto beach and into York River
- Removed surface debris on beach May 2004
- Action Memo for Time-Critical Removal Action (TCRA) signed July 1, 2004 to mitigate further erosion

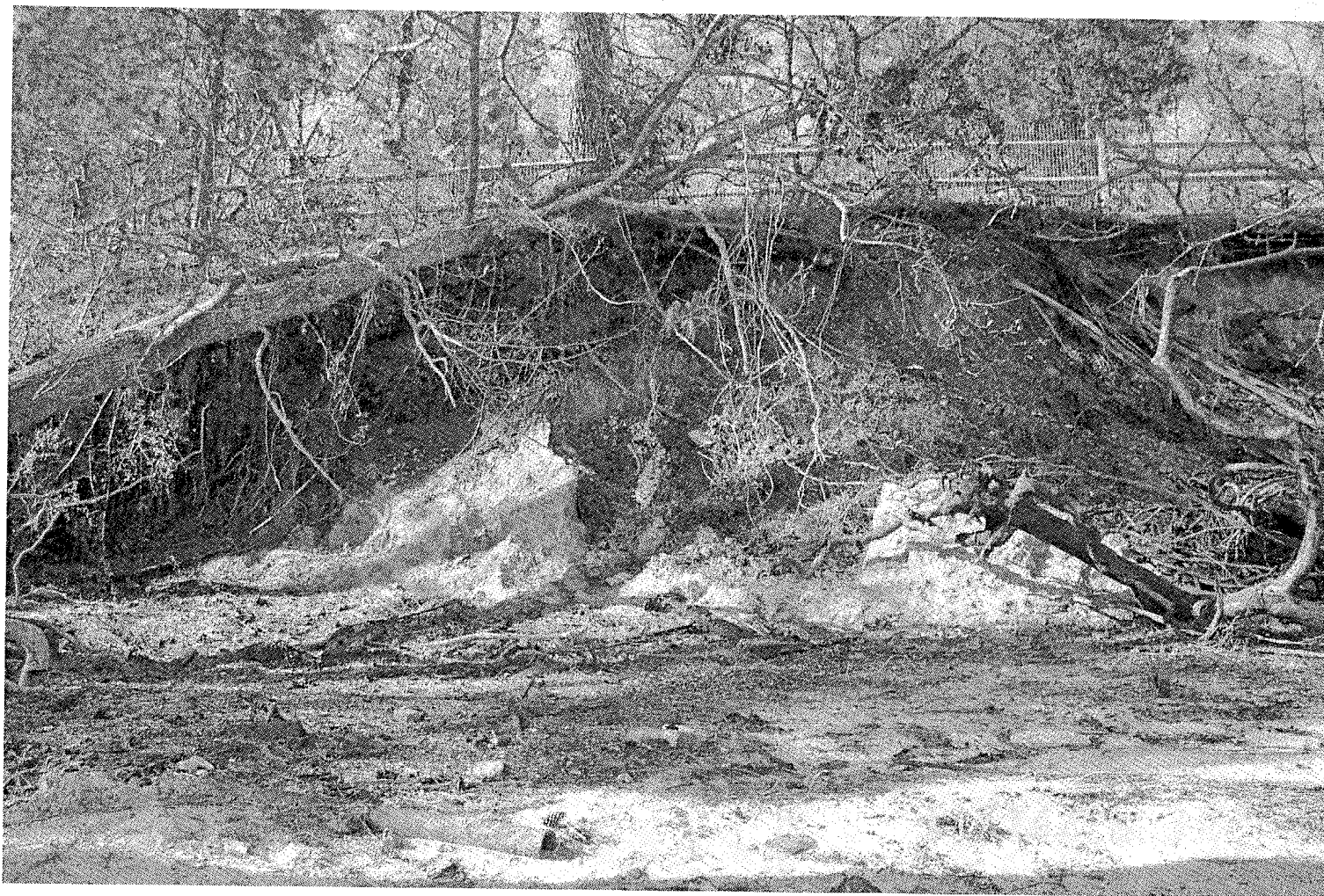


Isabel Erosion





Sloughing Hillside



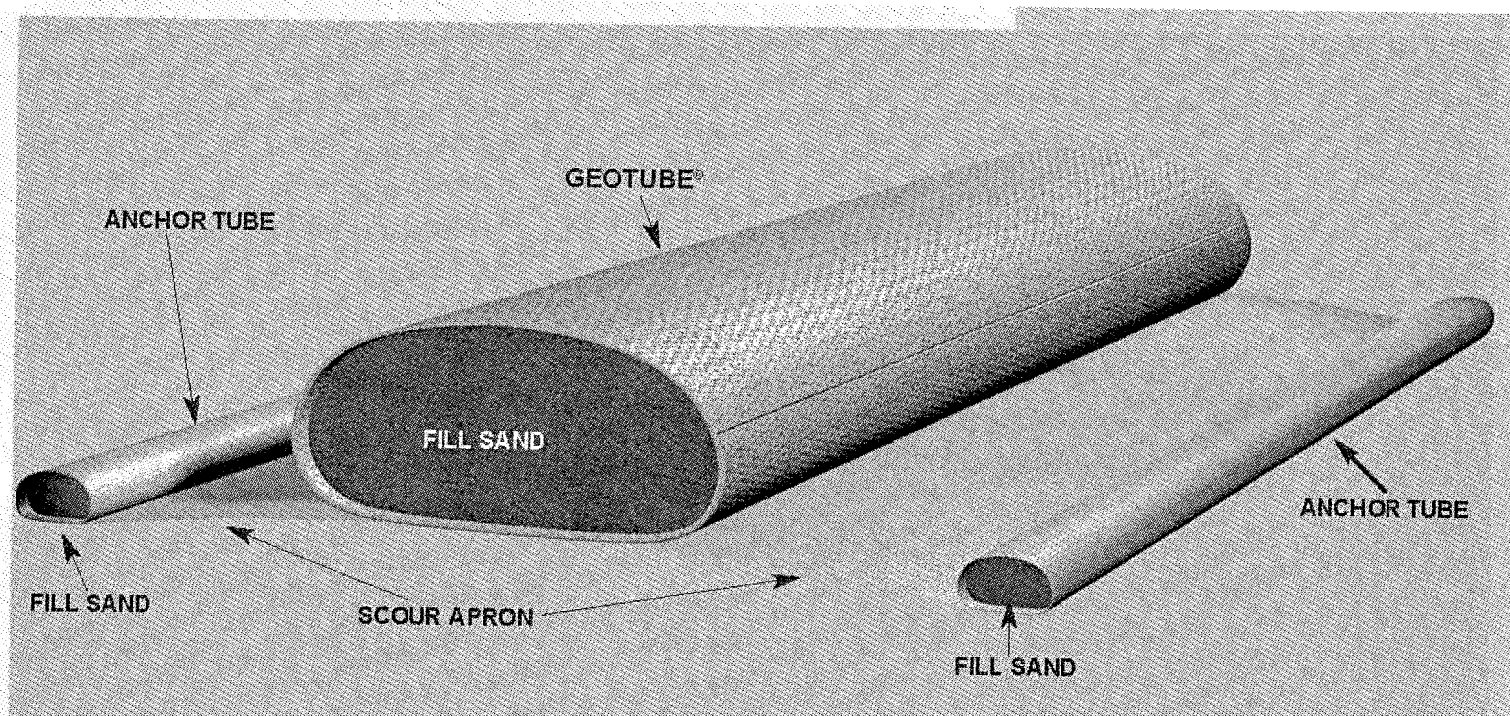


Beach Cleanup





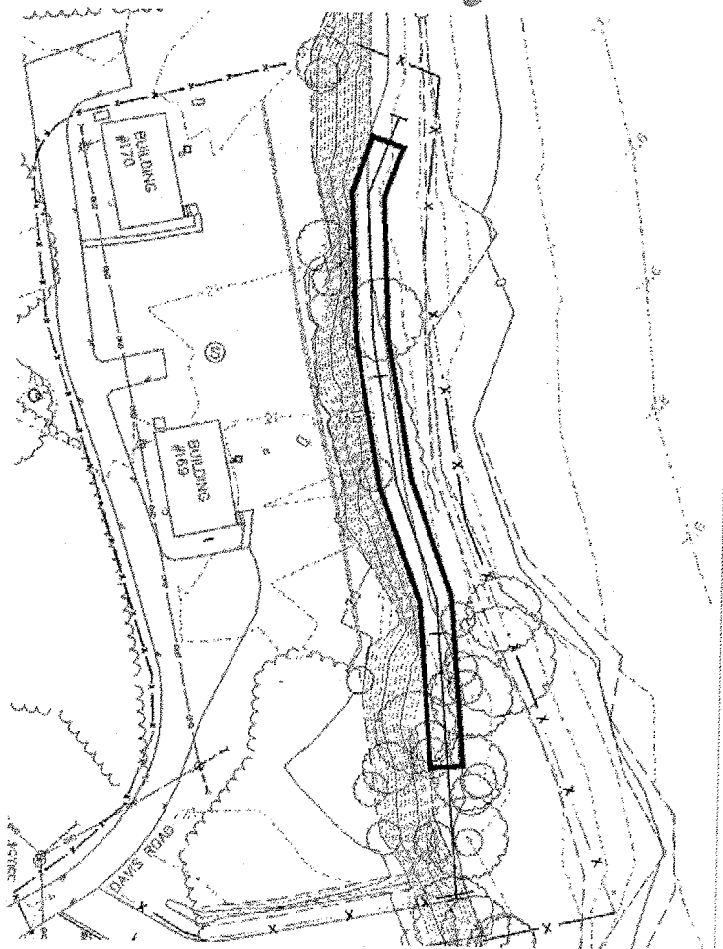
Typical Geotube Installation



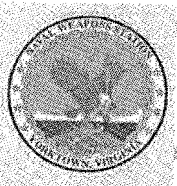
Typical cross-section showing the relationship between the Mirafi® **Geotube**® and the Scour Apron. The intent of the apron is for the anchor tubes to bury themselves and protect the **Geotube**® from scour.



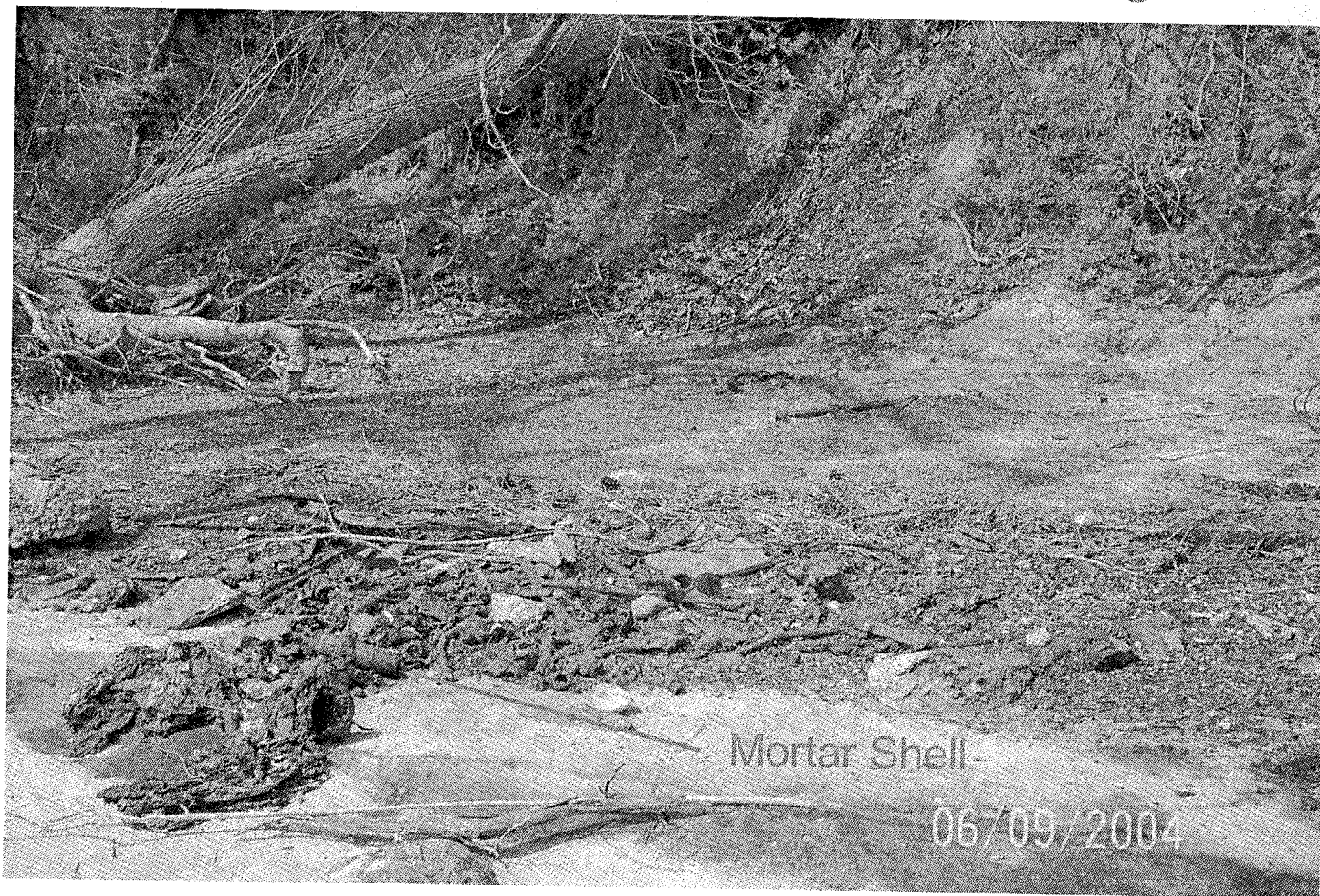
Proposed Location of Geotube Bird's Eye View







Unfired, Unfuzed, 3-inch Projectile





Military Munitions Definitions

- Military munitions means propellants, explosives, pyrotechnics, chemical and riot control agents, smokes, and incendiaries
- Does not include wholly inert items
- UXO means military munitions that have been primed, fuzed, or otherwise prepared for action and have been fired but remain unexploded
- Munitions and Explosives of Concern (MEC) include UXO, discarded military munitions, and munitions constituents



Explosives Safety Submittal

- Required before the start of munitions response activities
- Required before the start of any operations occurring at a site that involve:
 - The placement of explosives on a site
 - The intentional physical contact with munitions
 - The conduct of ground-disturbing or intrusive activities in areas known or suspected to contain MEC



ESS Waiver

- Former ranges used exclusively for training
- On-call construction support
- Activities employing anomaly avoidance with no unacceptable risks
- Construction response having a single military munitions response in area not known or suspected of having MEC



Operational Risk/Hazard Assessment

| Hazard Category | Mishap Probability A Likely | Mishap Probability B Probably in Time | Mishap Probability C May Occur in Time | Mishap Probability D Unlikely to Occur |
|-------------------|--------------------------------|--|---|---|
| I-May Cause Death | 1 | 1 | 2 | 3 |
| II-Severe Injury | 1 | 2 | 3 | 4 |
| III-Minor Injury | 2 | 3 | 4 | 5 |
| IV-Minimal Threat | 3 | 4 | 5 | 5 |



Path Forward

- Submitted preliminary draft of ESS to Naval Ordnance Safety & Security Activity
- Received 50 critical comments
- Incorporate comments and issue draft ESS to NOSSA for approval
- Revise work plan and begin geotube installation



Questions or Comments?

For additional information contact:

Linda L. Cole

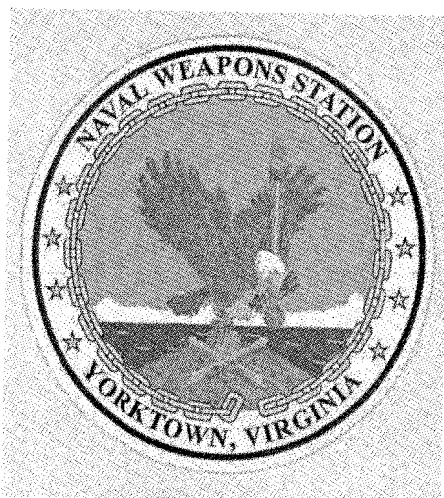
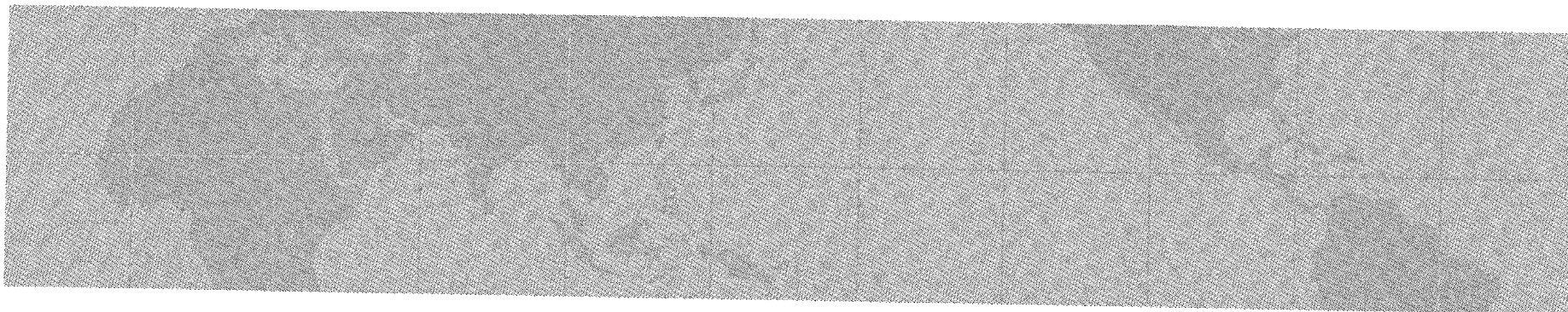
NAVFAC Mid-Atlantic

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Naval Weapons Station Yorktown

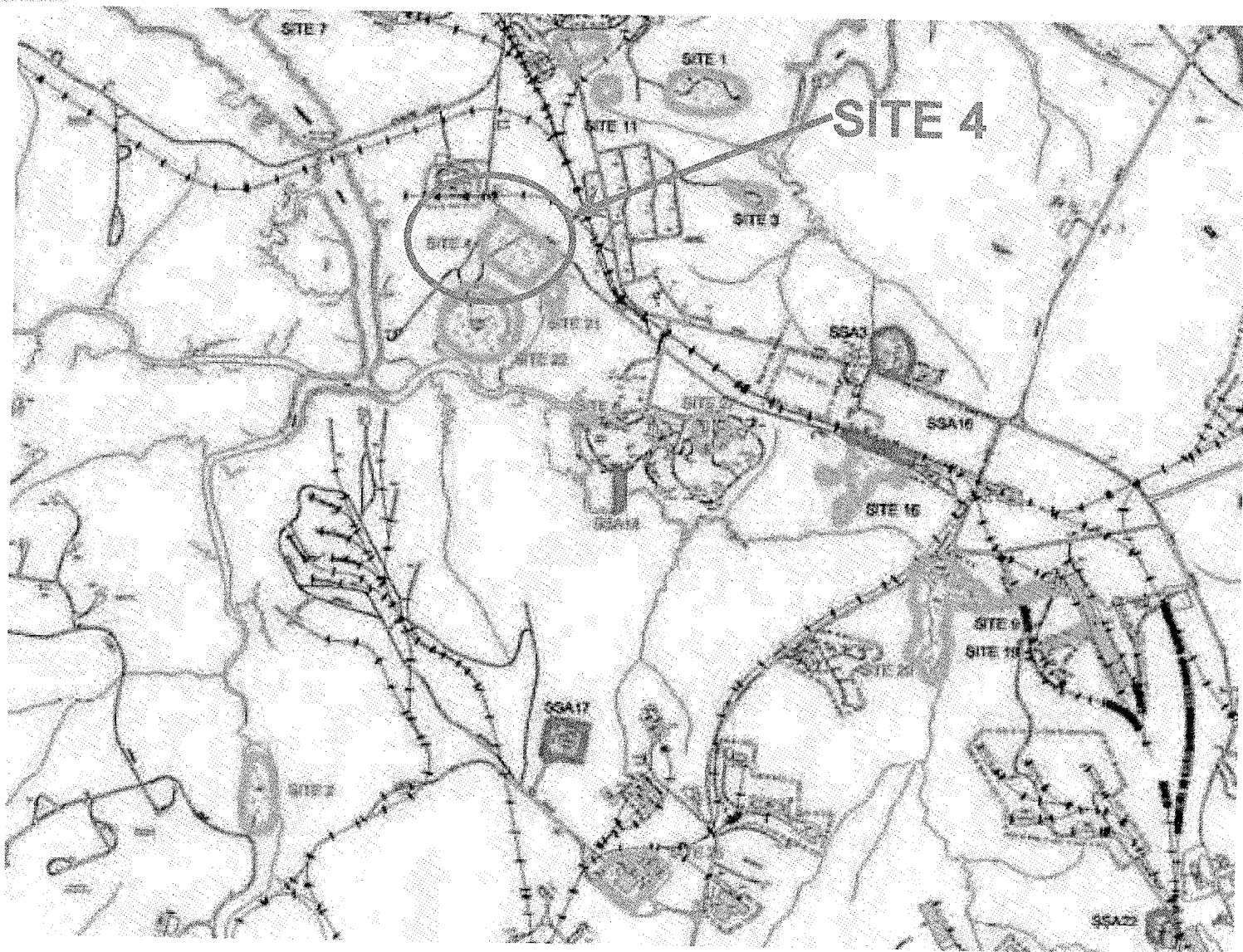
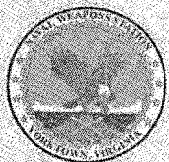
Site 4 – Burning Pad Residue Landfill Record of Decision

WPNSTA Yorktown RAB Meeting
18 May 2005



Background

- Approximately 10 acres
- Used as disposal area from 1940s until 1975
- Materials disposed included
 - Carbon-zinc batteries
 - Burning pad residues
 - Fly ash from coal-fired boilers
 - Mine casings
 - Electrical equipment
 - General construction debris





Magazine Group
No. 16

Felgates Creek

Site 4

Site 22

Site 21

West Road



History of Investigations

- Round One RI completed in 1993
- Surface debris removal action in 1994
- Round Two RI completed in 2001
- Feasibility Study completed in 2001
- Proposed Plan completed in 2001
- Public Meeting held on February 21, 2001



Proposed Plan Public Meeting

- Preferred alternative in the Proposed Plan included excavation with off-site disposal
 - Prevents potential human and ecological exposure to PAHs, 2,4,6-TNT, and metals
 - Soil removed to meet industrial cleanup levels



2005 NTCRA

- A non-time-critical removal action (NTCRA) was completed in 2005
- The NTCRA initially included removal of contaminated soil exceeding industrial cleanup goals
- During the NTCRA, cleanup goals were revised to meet residential and ecological risk criteria
- Eliminates need for land use controls

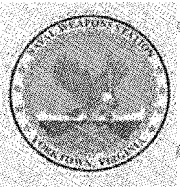






No Further Action ROD

- ROD addresses soil only; groundwater will be addressed as part of a separate operable unit
- No Further Action because the 2005 NTCRA remediated unacceptable risks to human and ecological receptors
- ROD includes Documentation of Significant Changes since remedy differs from that presented to the public on 2/21/01



Goal

- ROD signature by September 2005



Questions or Comments?

For additional information contact:

Don Joiner

Baker Environmental, Inc.

770 Lynnhaven Parkway

Suite 240

Virginia Beach, VA 23452

757-631-5416

djoiner@mbakercorp.com